

No	Field	Type	Description
1.	ResourceID	String	A unique ID assigned to this communication
2.	ResourceType	Integer	The application type (e.g., email, instant messaging, etc.)
3.	ResourceKey	Binary	The encryption key
4.	KeySize	Integer	The size of the key
5.	KeyCreator	String	The ID of the key creator
6.	KeyOwner	String	The ID of the key owner
7.	DateCreated	Date	The date and time when the key was created
8.	ReleaseAfter	Date	The date and time before which the key should not be released (per recipient)
9.	ExpireOn	Date	The date and time after which the key should not be released (per recipient)
10.	LastRelease	Date	The last date time the key was released (per recipient)
11.	ExpectedRequest	Date	The date and time by which the key is expected to be requested (per recipient)
12.	NumReleased	Integer	The number of times the key was released (per recipient)
13.	NumReleases	Integer	The number of times the key should be released (per recipient)

TABLE 1

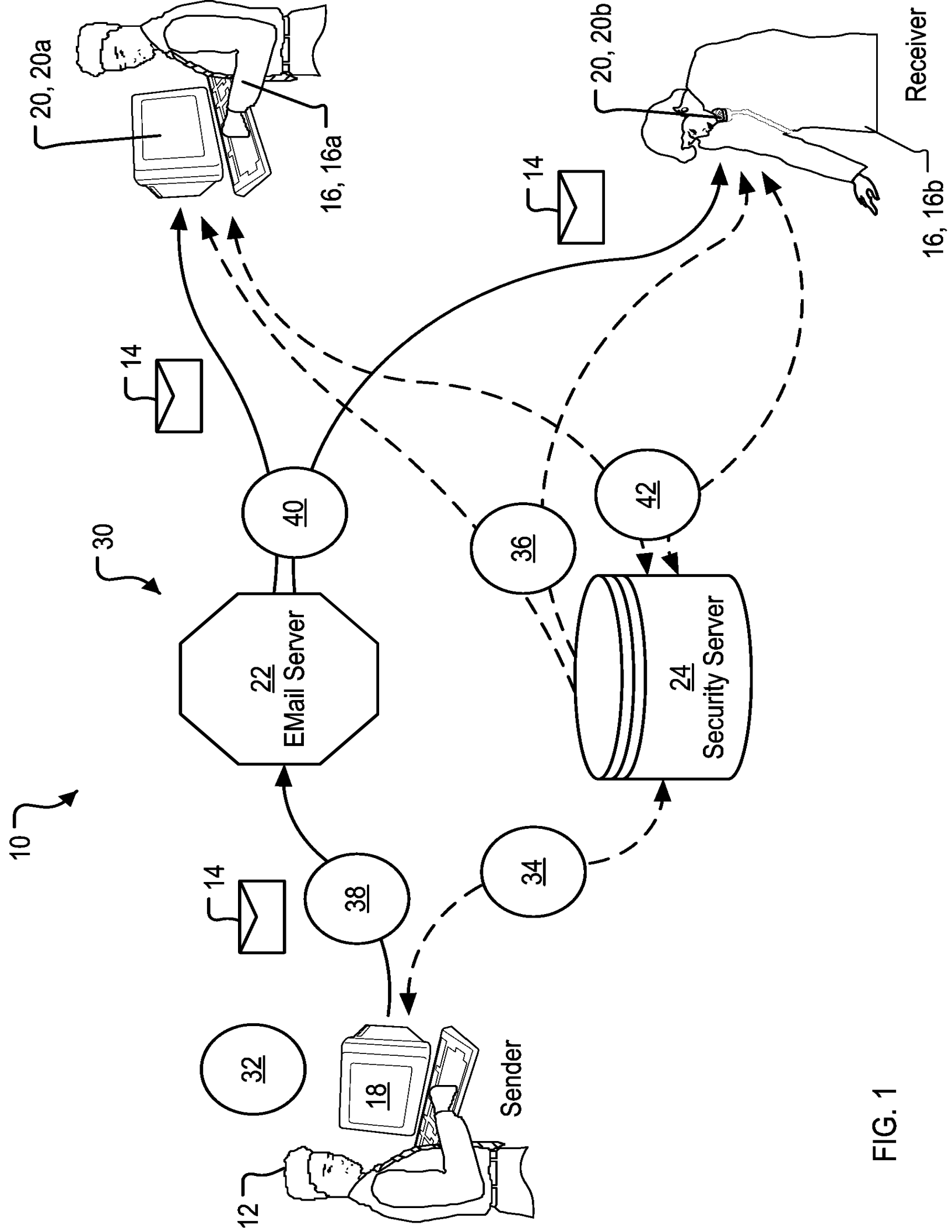


FIG. 1

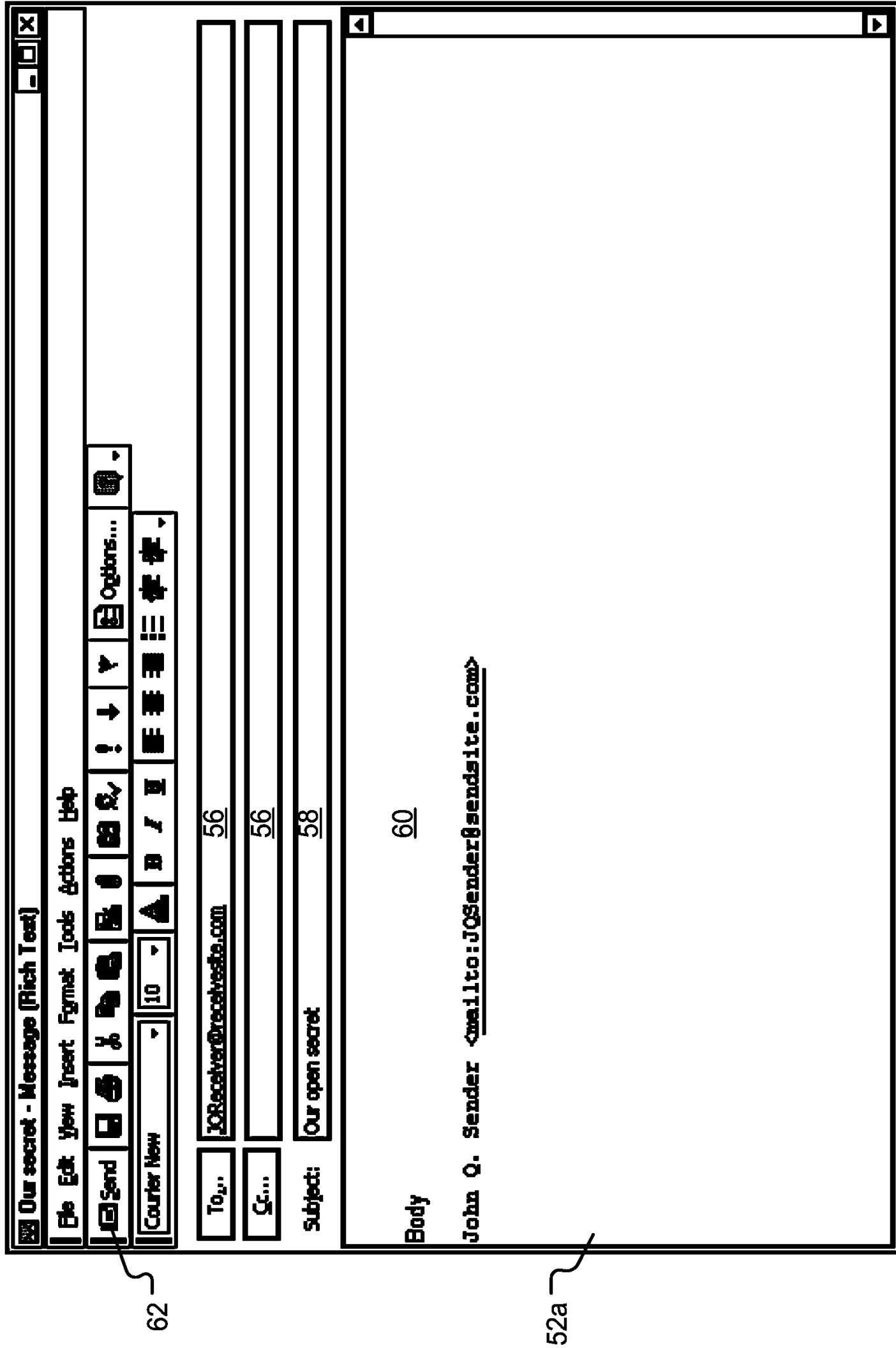


FIG. 2a

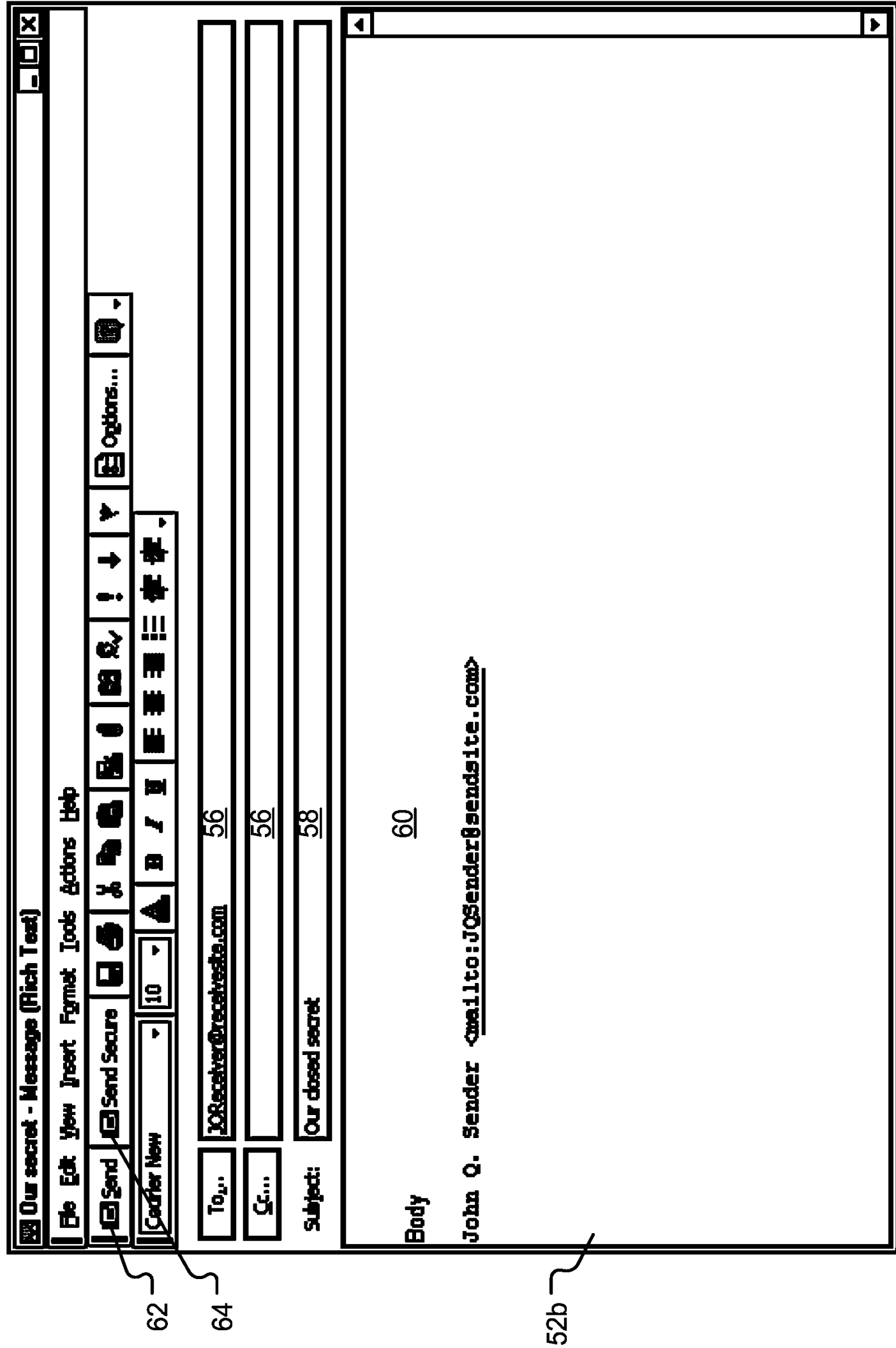


FIG. 2b

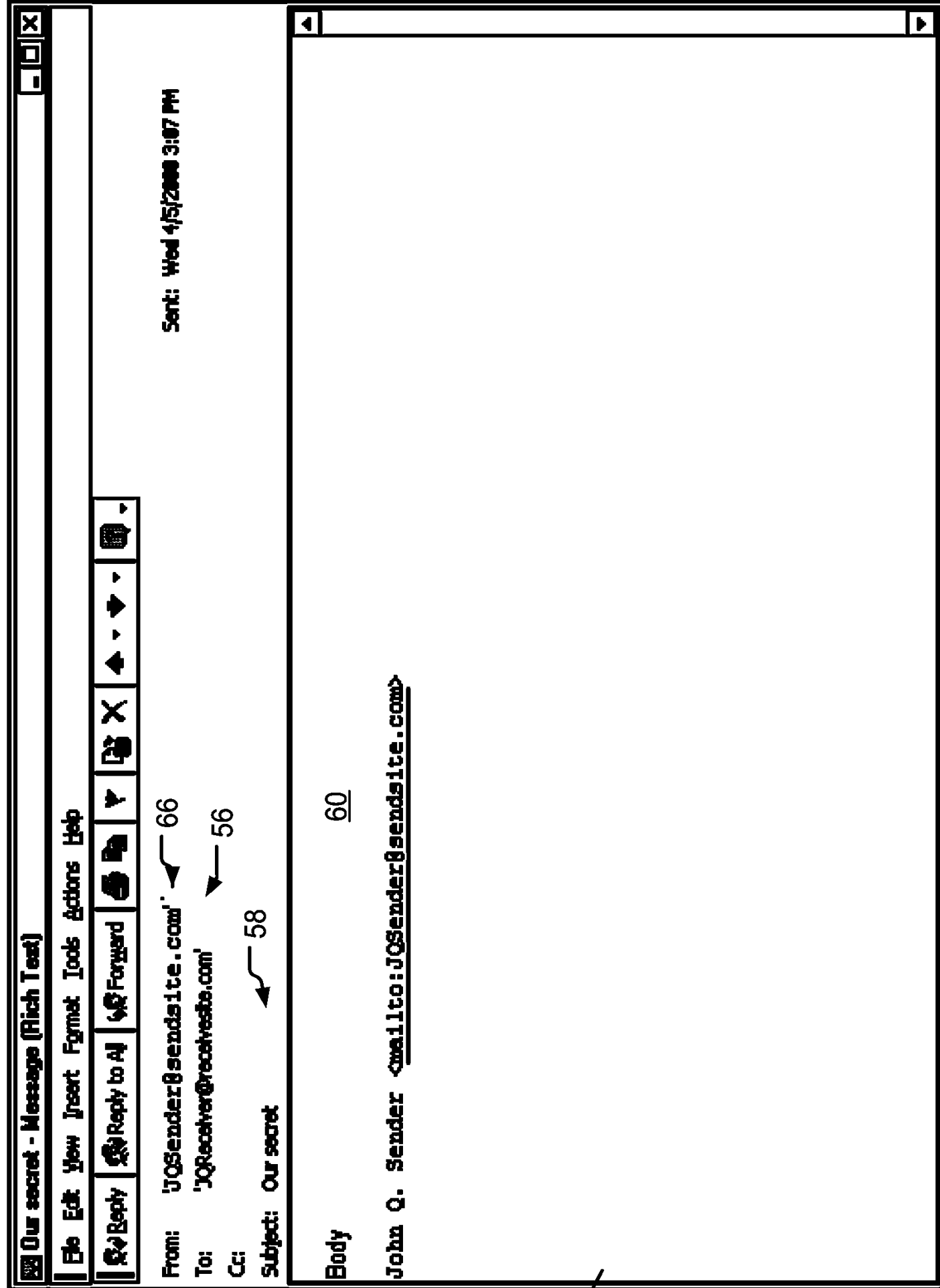
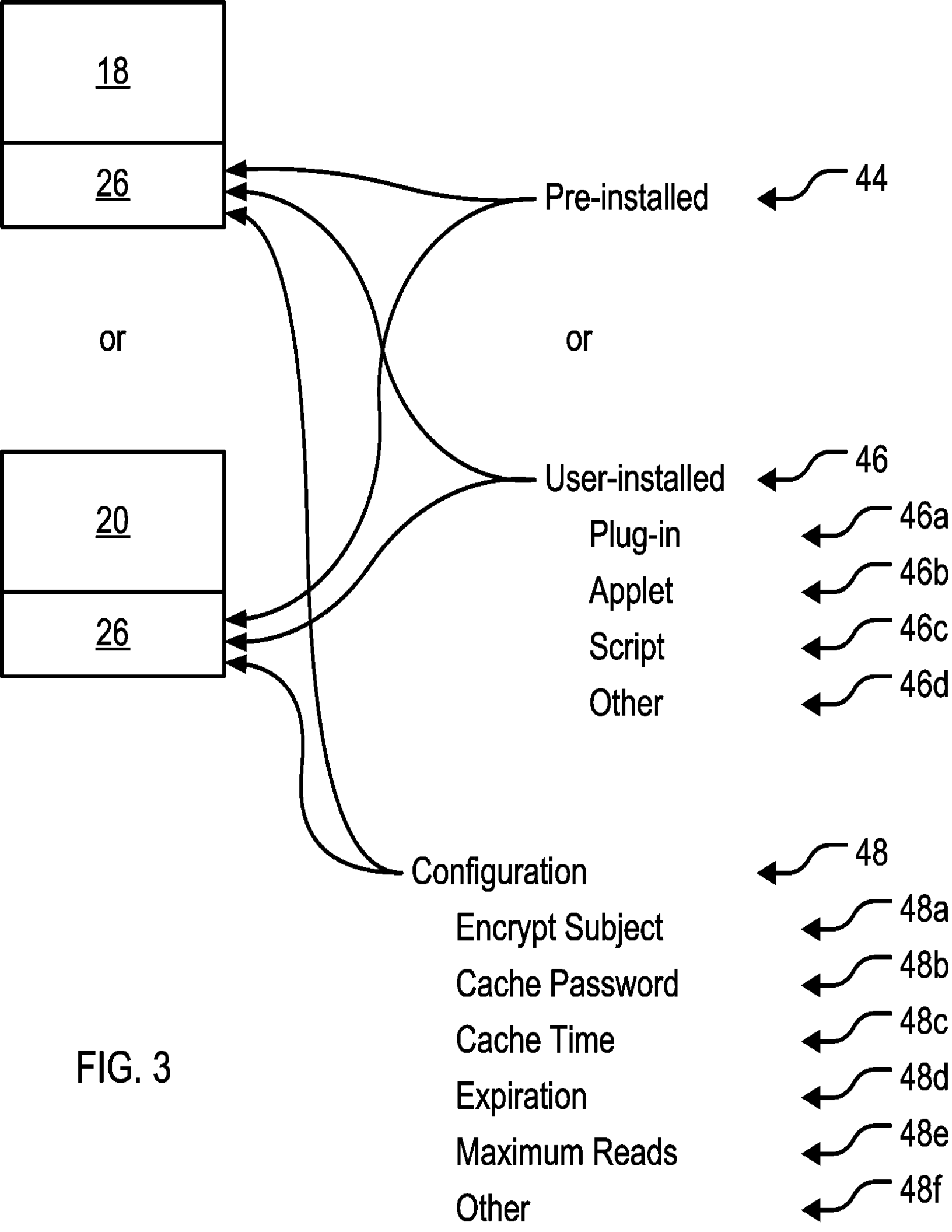


FIG. 2c



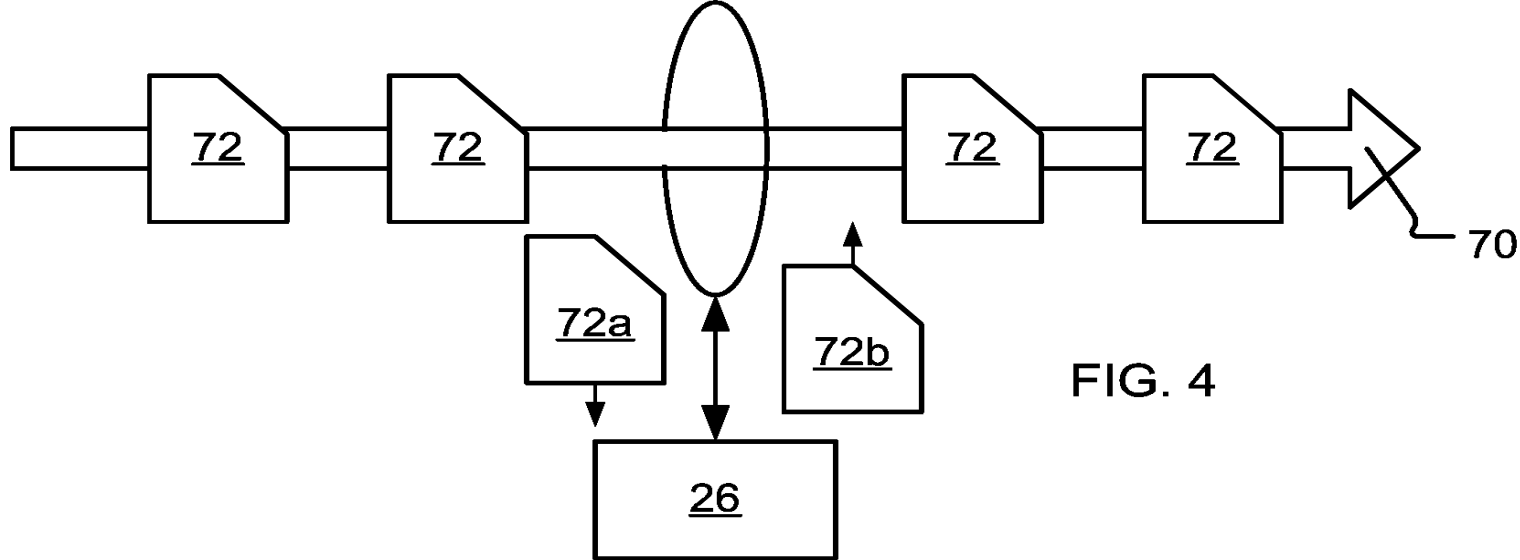
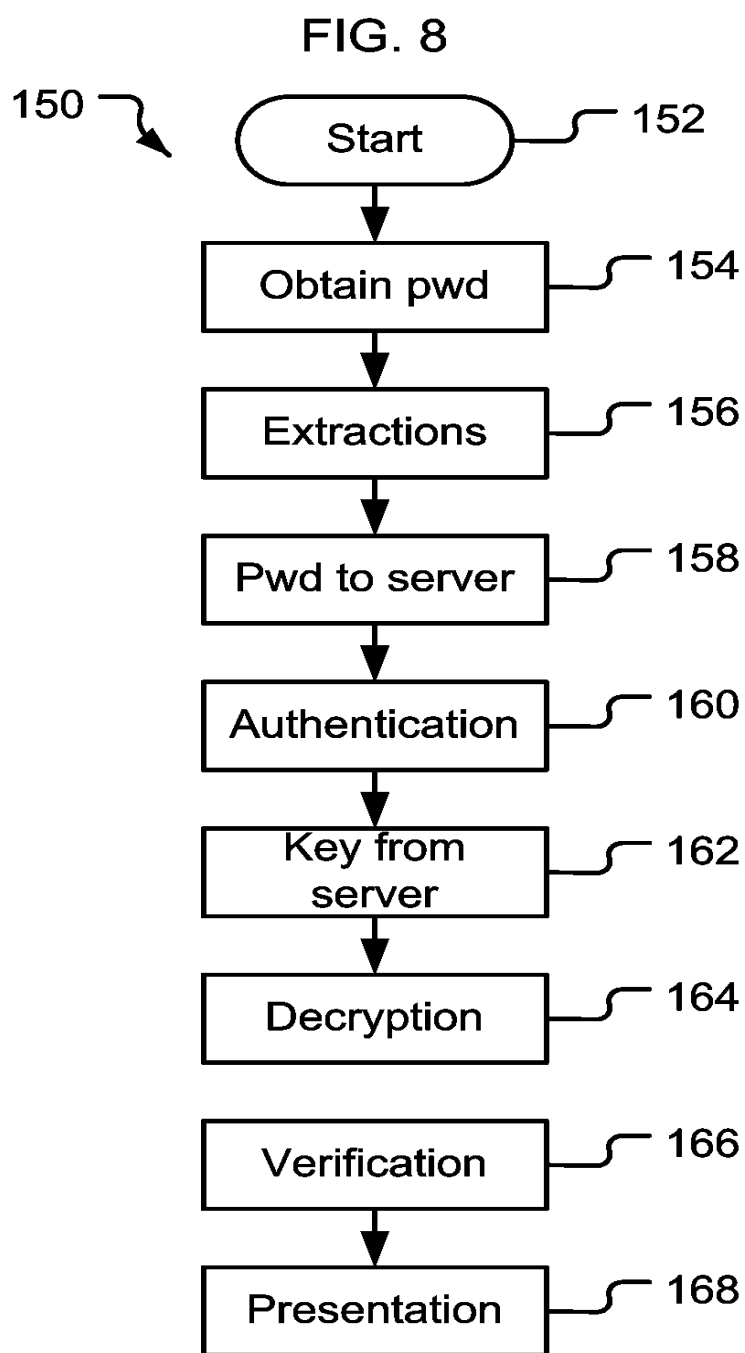
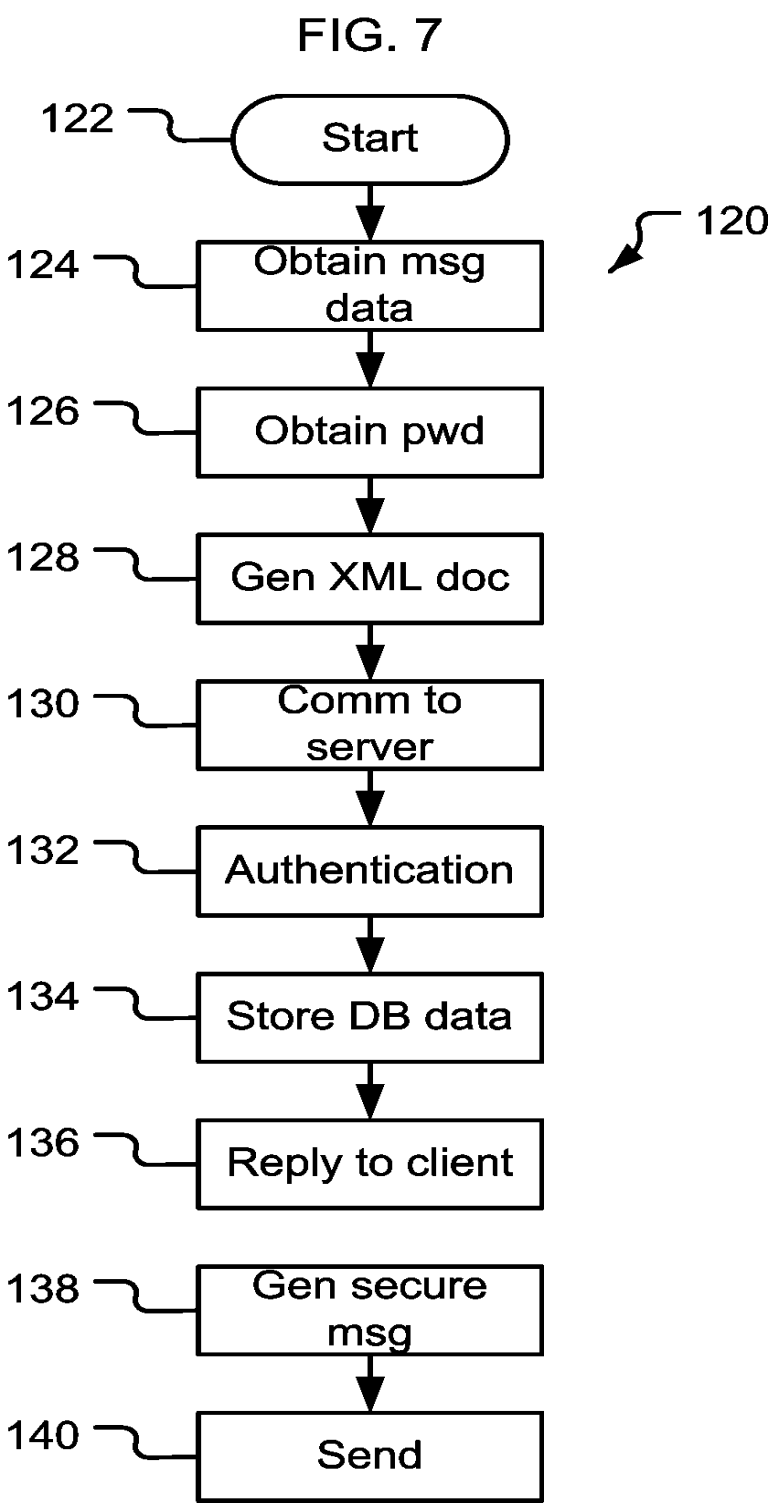


FIG. 4



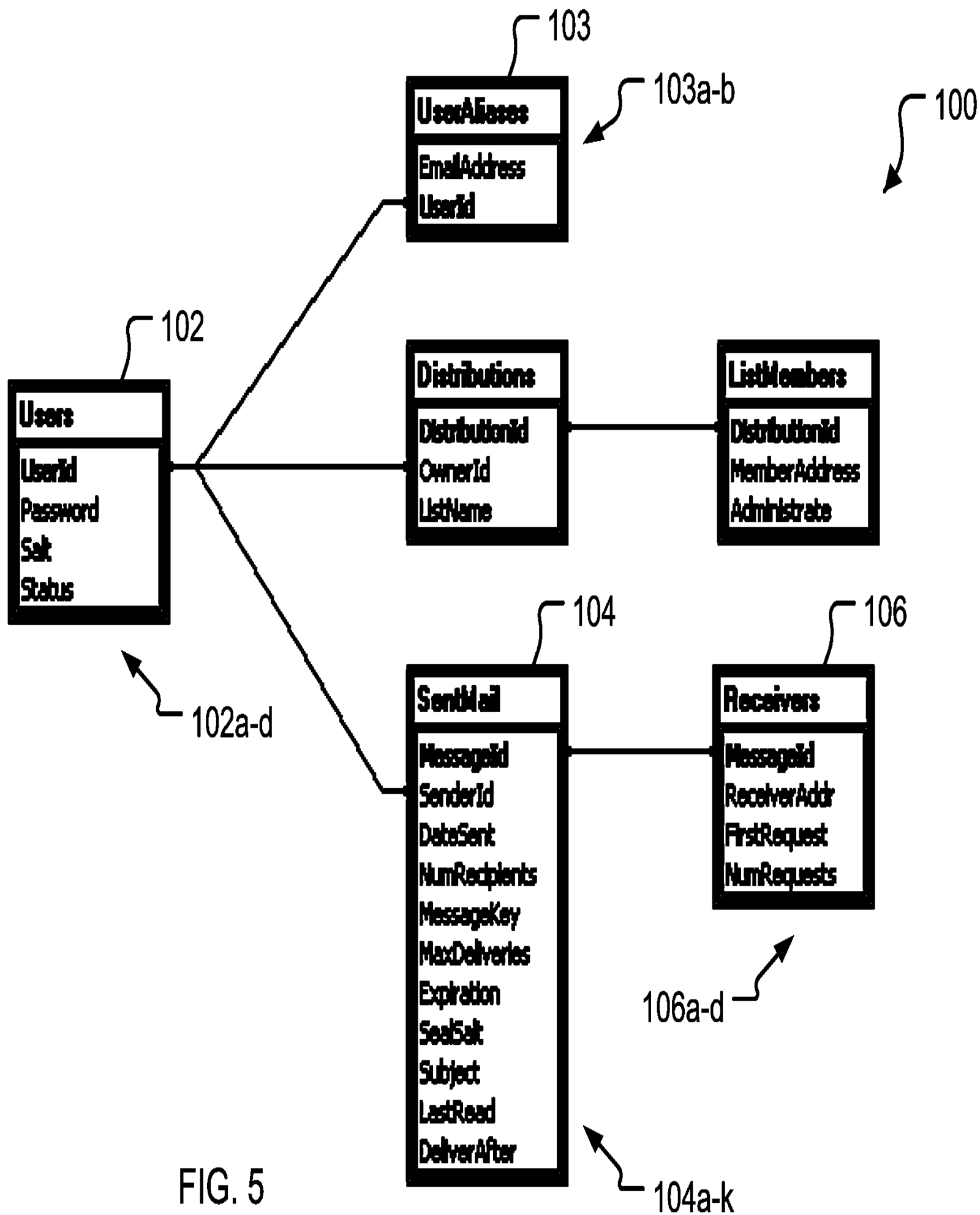


FIG. 6a: Basic user information table (Users)

Column Name	Type	Description
UserId	integer	Internal user identifier
Password	raw	Hash of user's password
Salt	integer	Salt added to password before hash
Status	varchar	User's current registration/usage status

FIG. 6b: Sent messages table (SentMail)

Column Name	Type	Description
MessageId	integer	Unique email identifier
SenderId	integer	Internal sender identifier (ref to Users)
DateSent	date	Time and date record entered
NumRecipients	integer	Number of users message was sent to
MessageKey	raw	Key used to encrypt/decrypt message
MaxDeliveries	integer	Maximum times key is delivered to each user
Expiration	date	Time after which message should not be delivered
SealSalt	integer	Secret salt added to hash to form seal
Subject	varchar	The subject of the message
LastRead	date	The date the message was last read
DeliverAfter	date	The date after which the message may be read

FIG. 6c: Email destinations (Receivers)

Column Name	Type	Description
MessageId	integer	Email message's identifier (ref to SentMail)
ReceiverAddr	integer	Receiver's e-mail address
FirstRequest	date	Time the receiver first attempts to read
NumRequests	integer	Number of times receiver requested to read

FIG. 6d: Alternate user identities (UserAliases)

Column Name	Type	Description
EmailAddress	varchar	Alternate email address
UserId	integer	Reference to Users table.

FIG. 6e: Distribution list master (Distributions)

Column Name	Type	Description
DistributionId	integer	Unique list identifier
OwnerId	integer	User who owns list (ref to Users).
ListName	varchar	Email address of this list

FIG. 6f: Distribution list members (ListMembers)

Column Name	Type	Description
DistributionId	integer	Reference to Distributions
MemberAddress	varchar	Name of alias on the list
Administrate	char	Y=member can update list, N=cannot

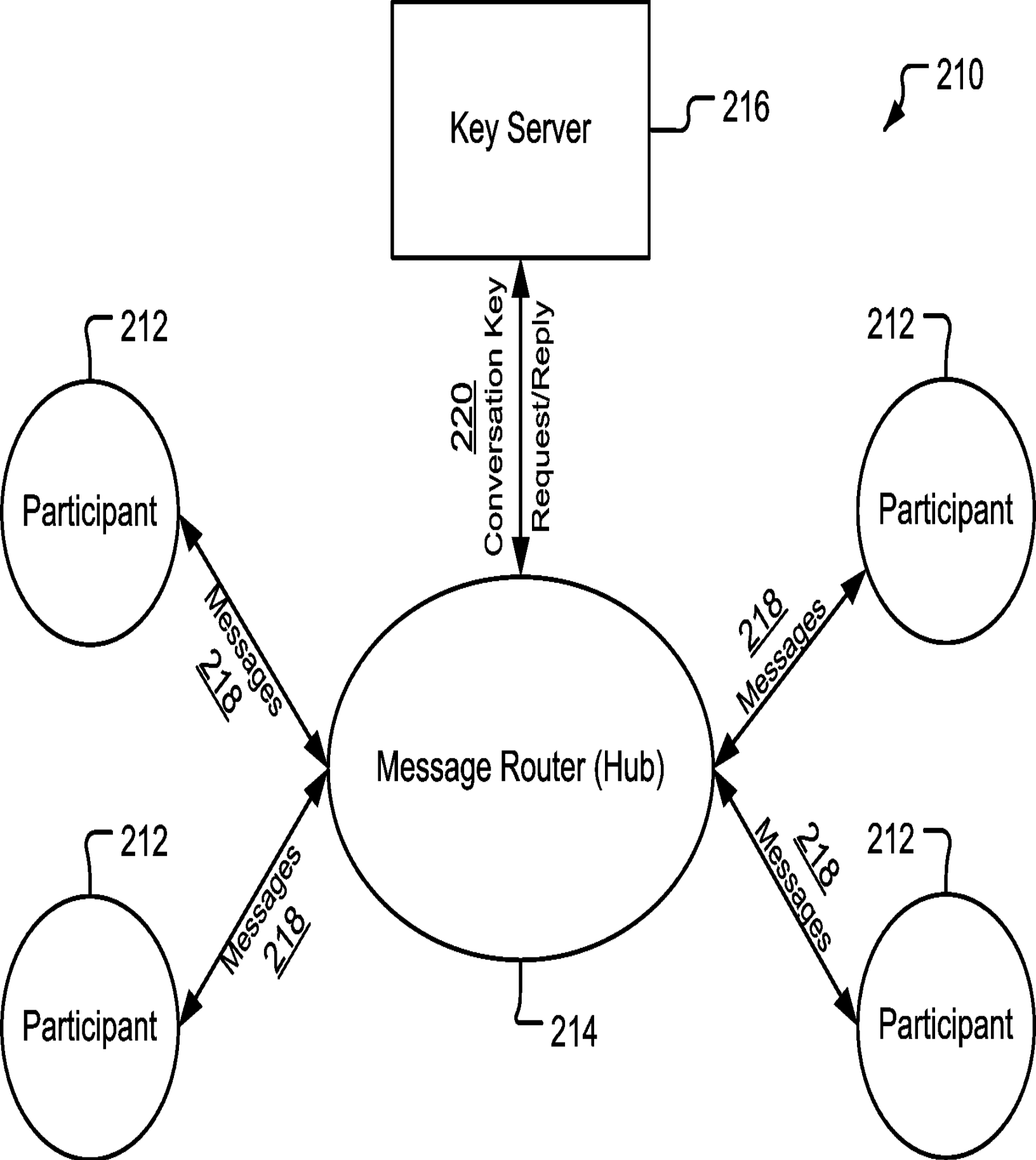


FIG. 9

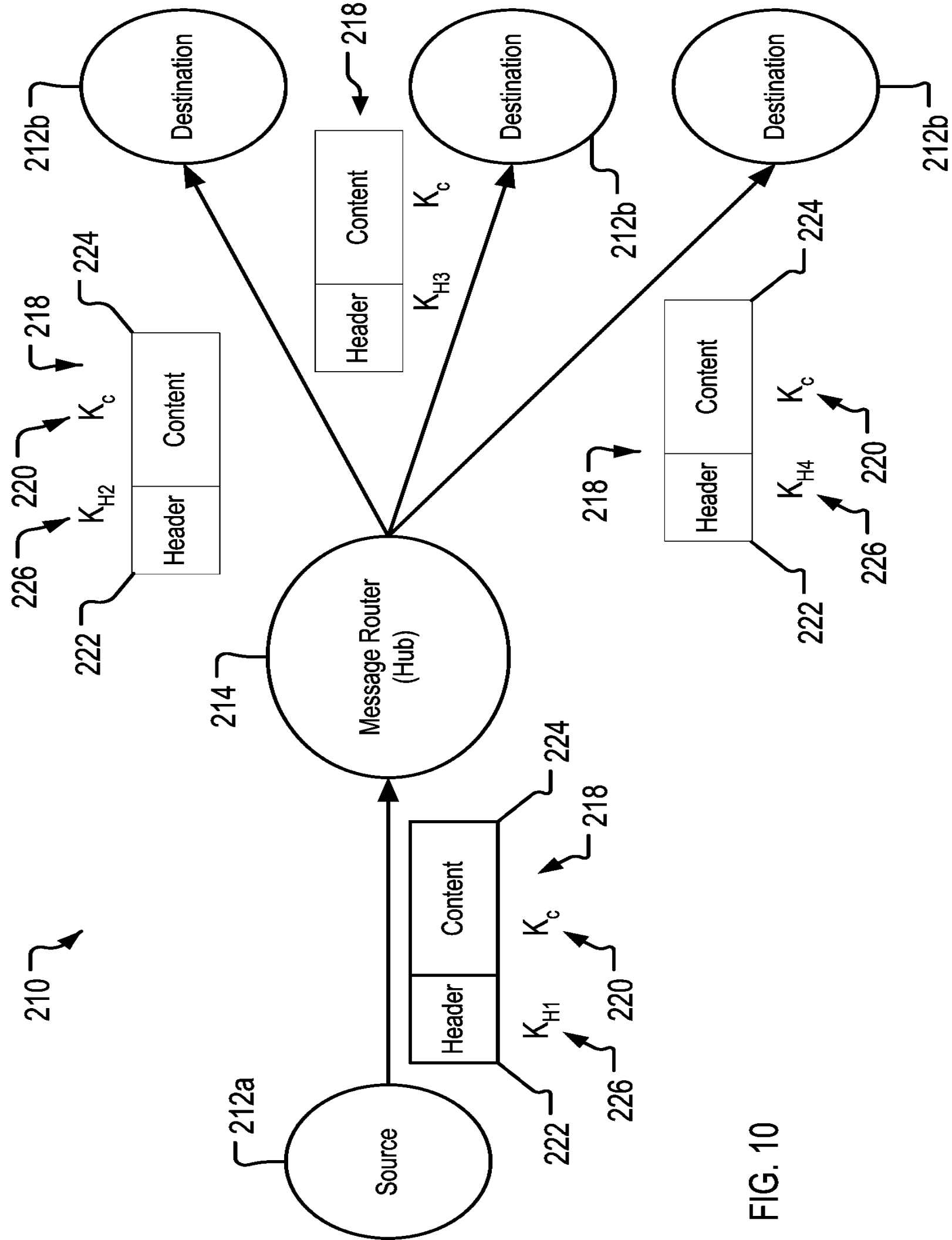


FIG. 10

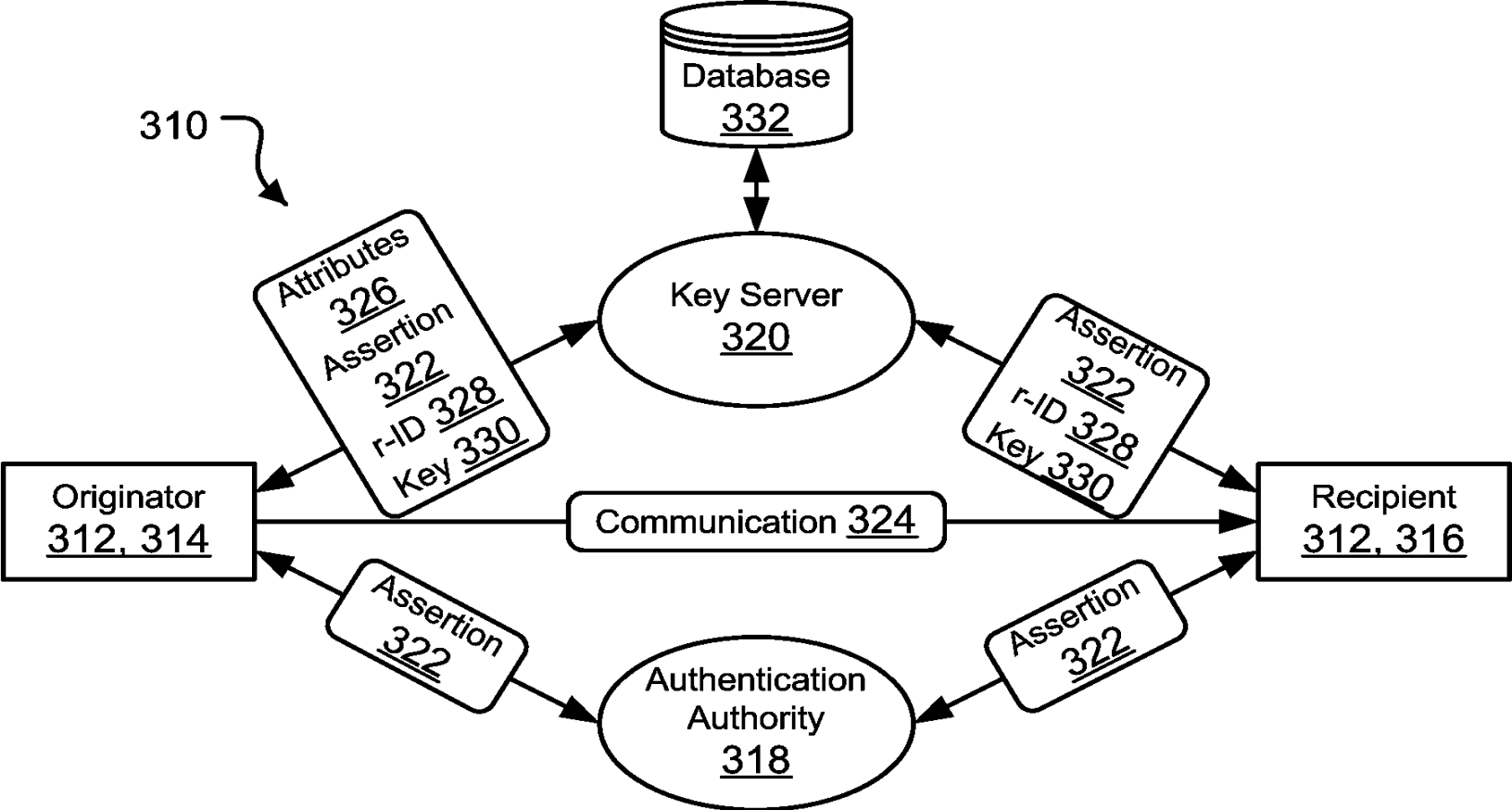


FIG. 11

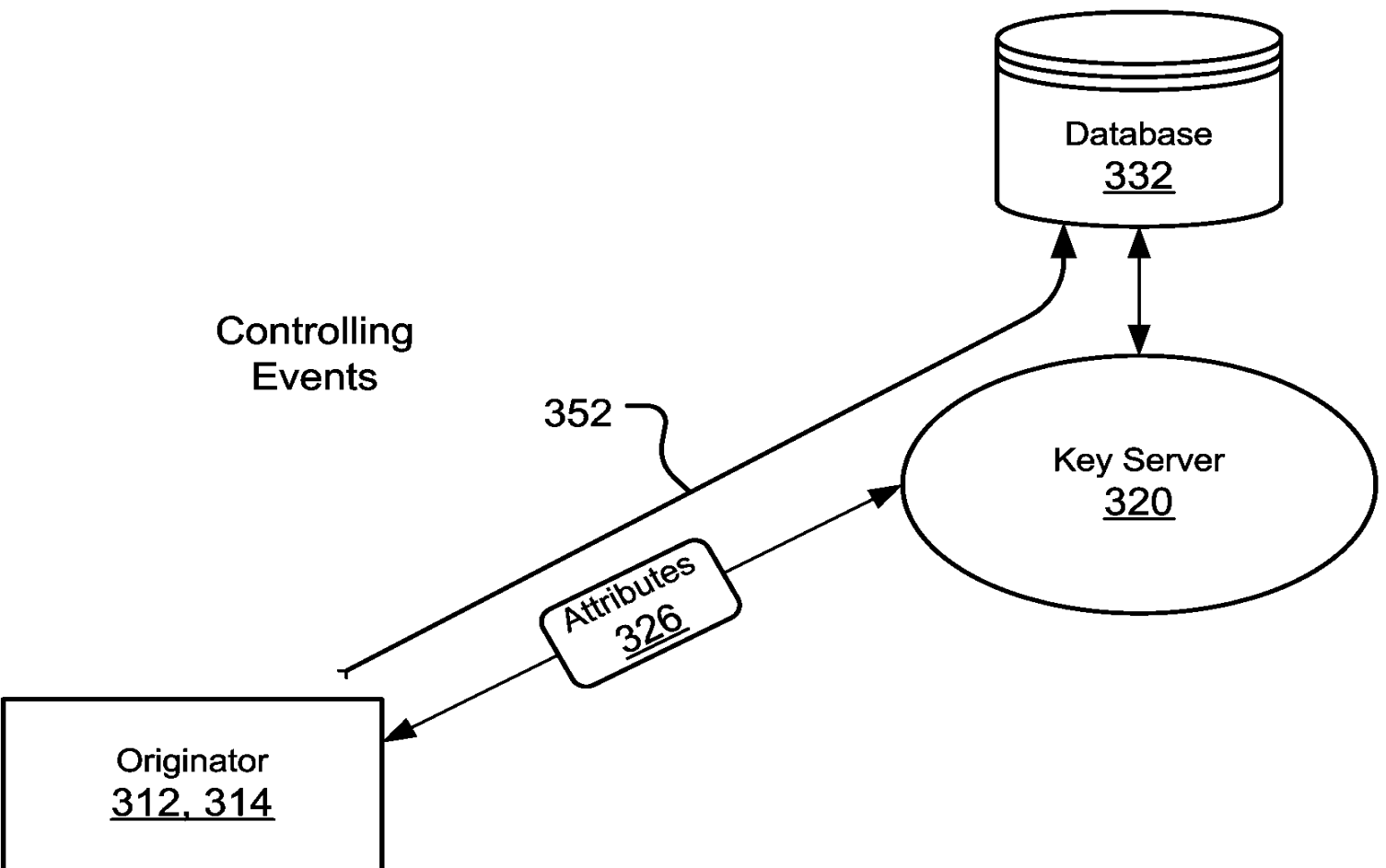


FIG. 12

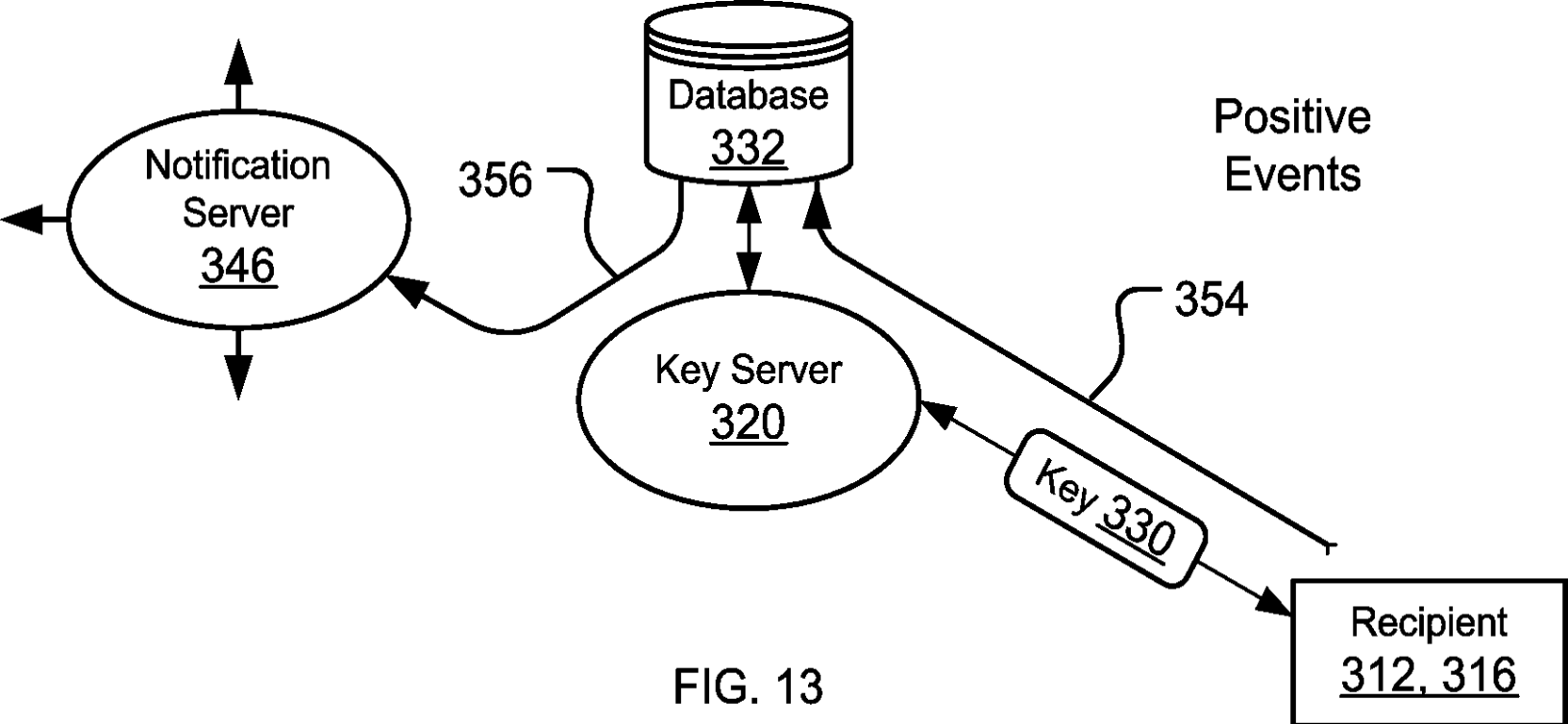


FIG. 13

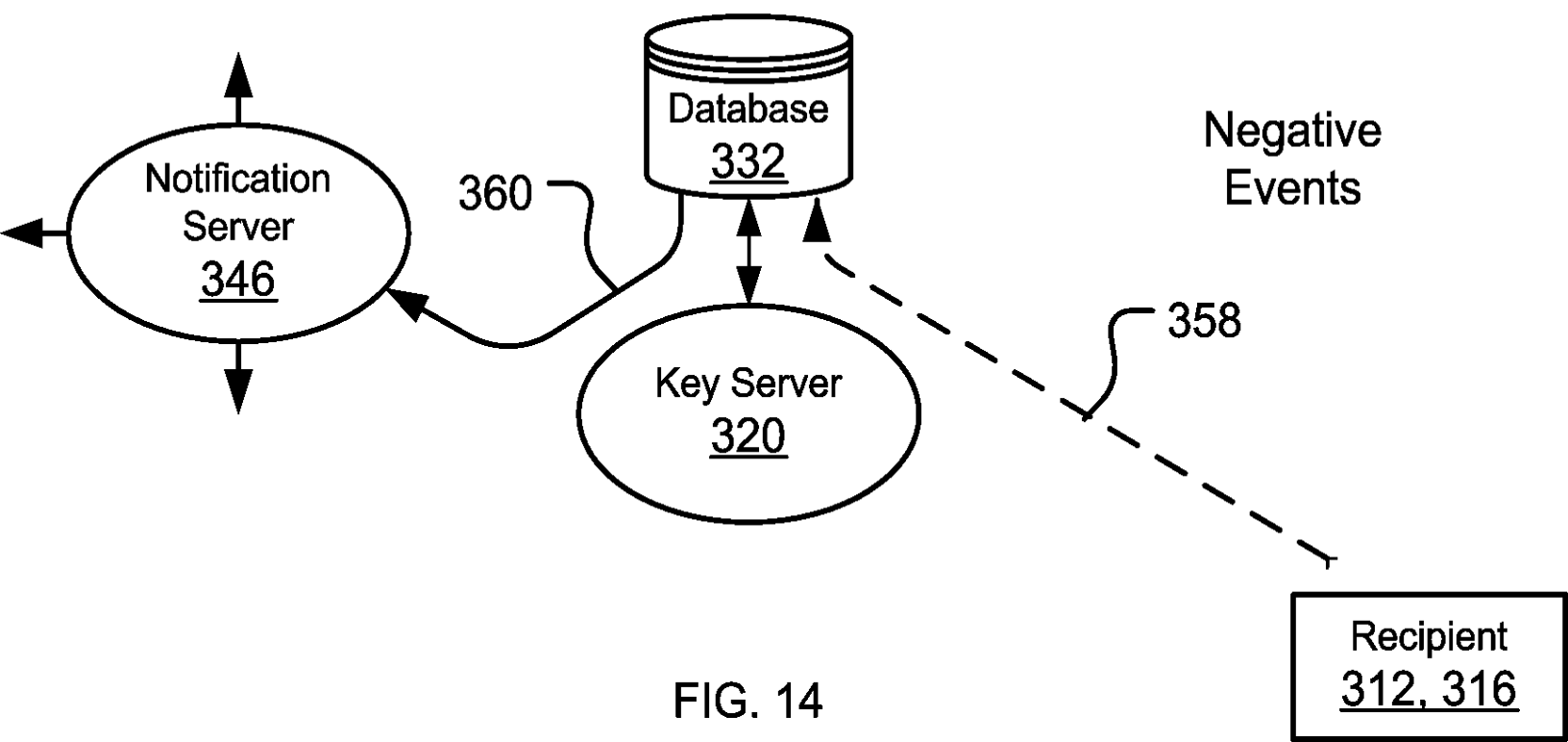


FIG. 14

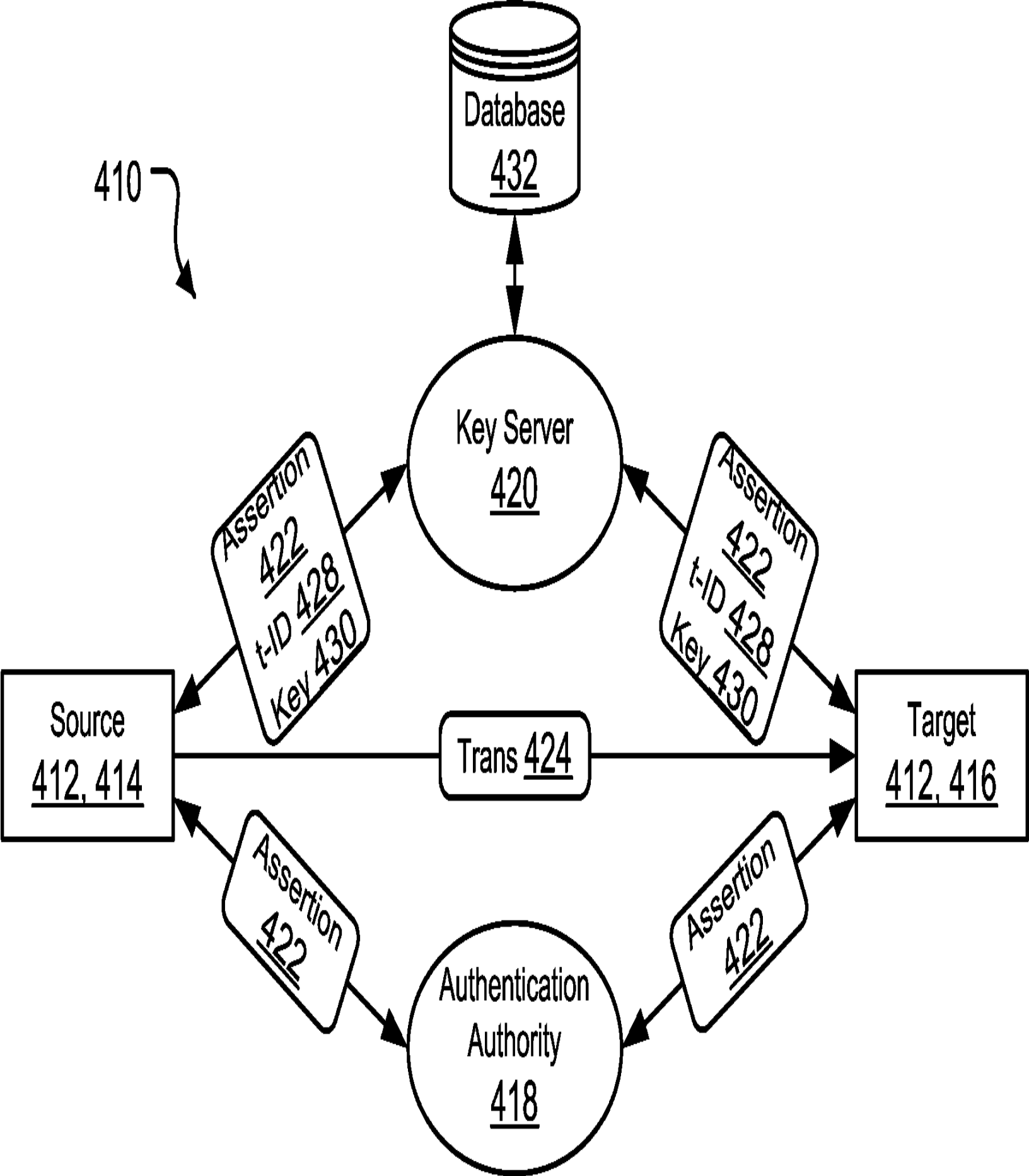
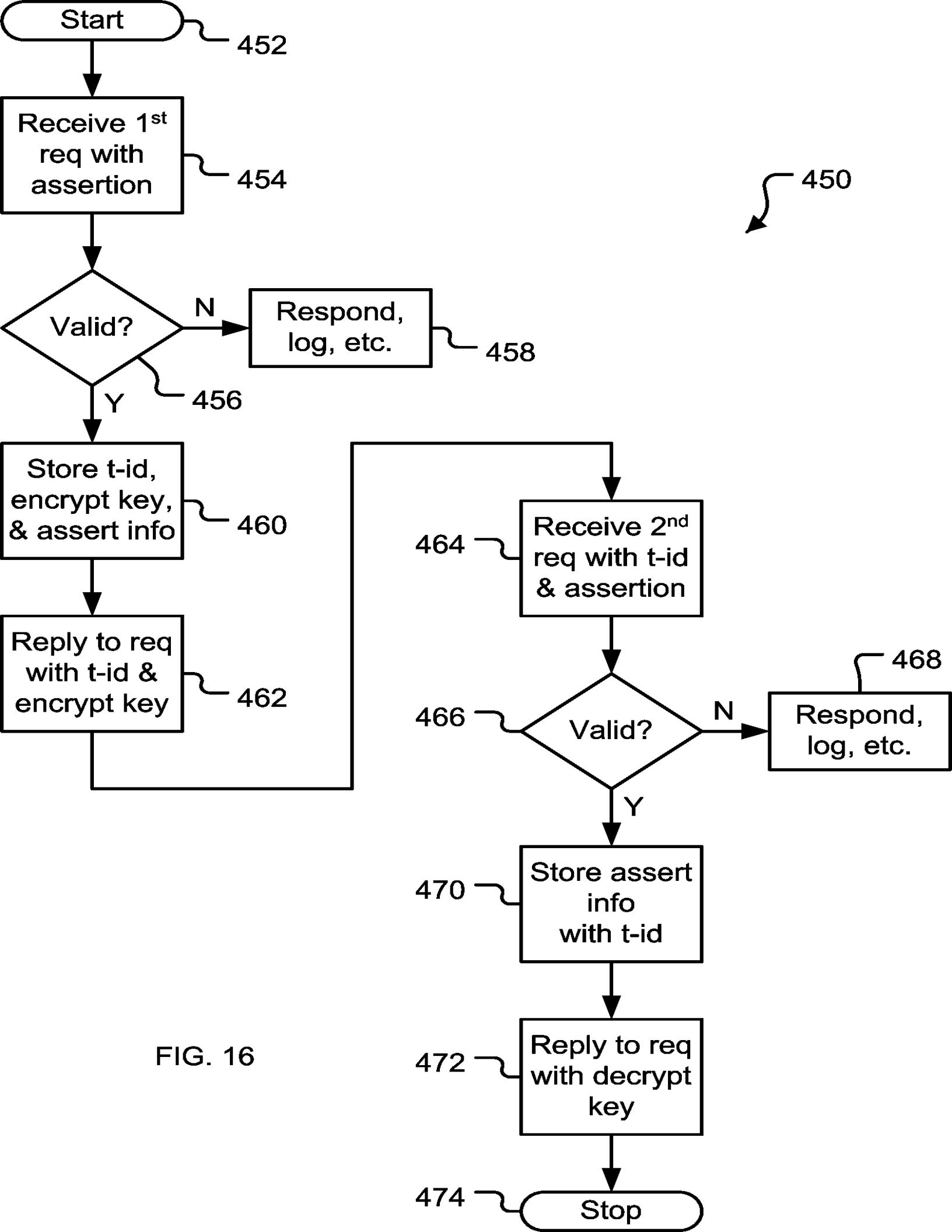


FIG. 15



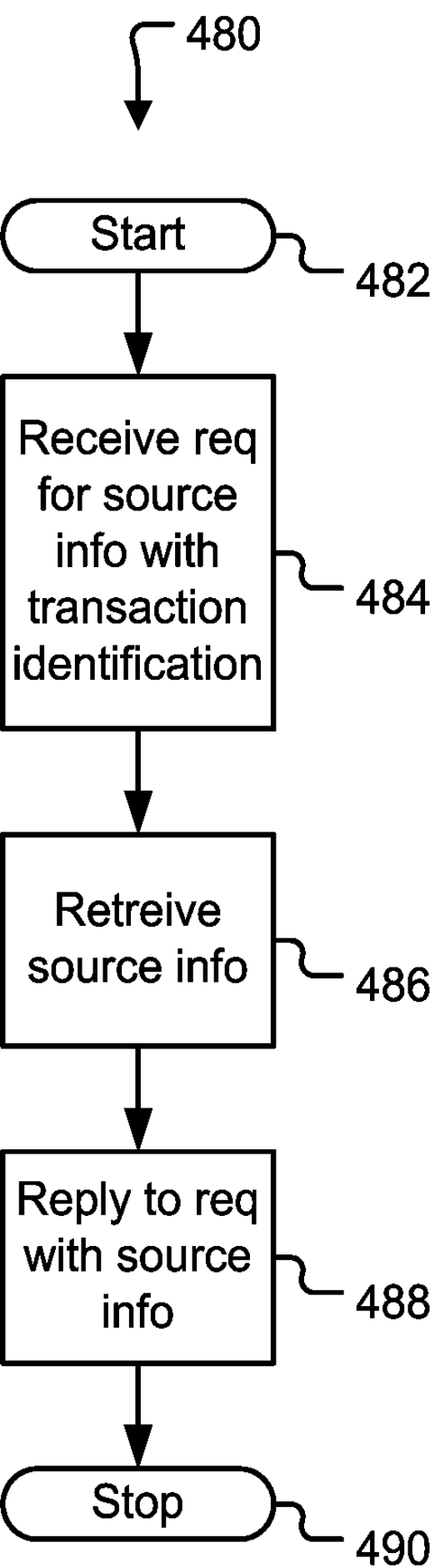


FIG. 17

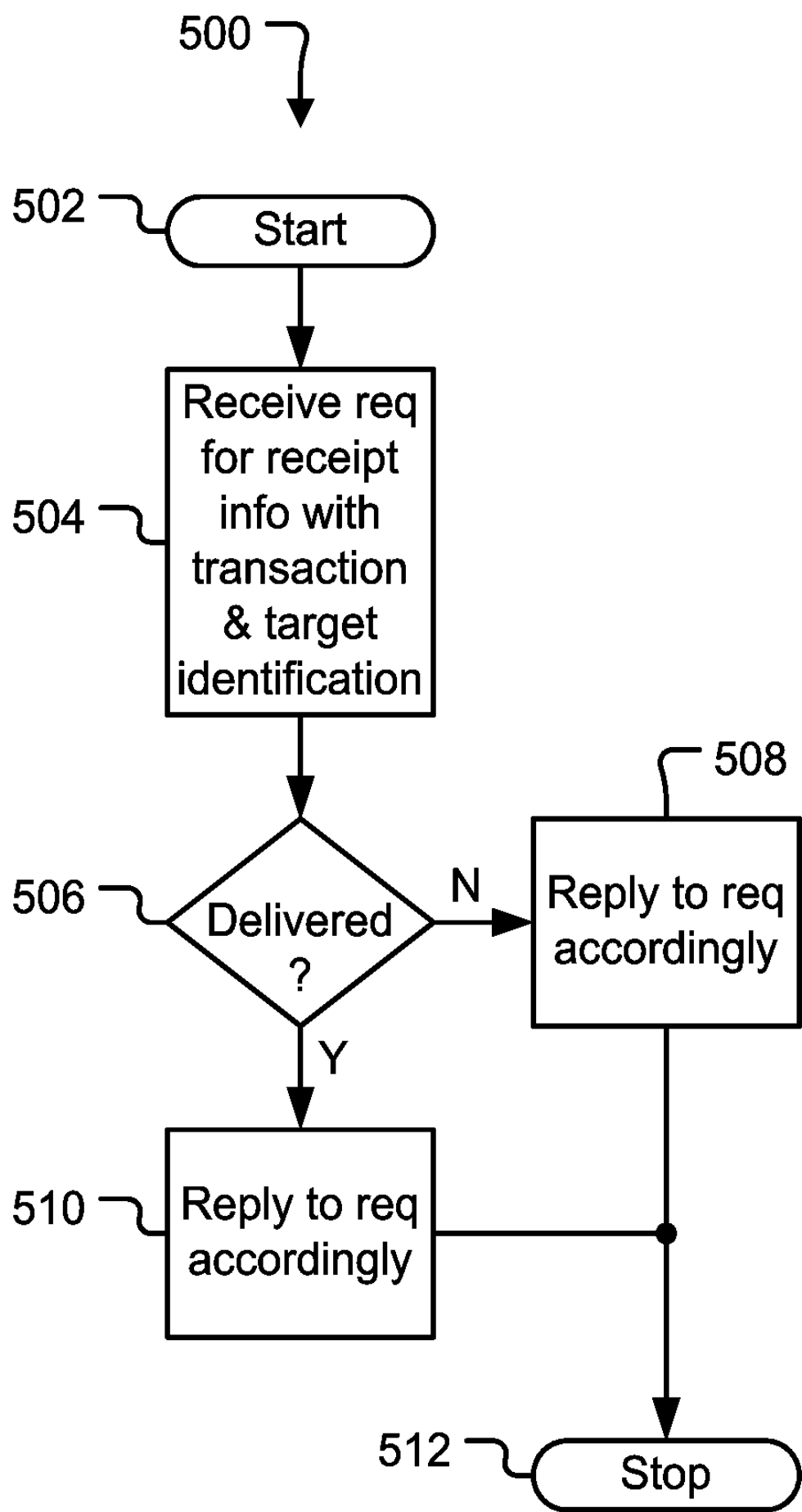


FIG. 18